AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

Please amend the claims as follows:

1. (Previously Presented) A portable unit comprising:

storage means for storing registration data; and

encryption means for encrypting the registration data stored in said storage means in executing personal authentication based on the registration data and new input information, and supplying the encrypted registration data to a personal authentication unit which is communicatively connected to said portable unit and executes the personal authentication by using the registration data obtained by decrypting the encrypted registration data.

2. (Original) A unit according to claim 1, wherein the registration data is personal biological data.

3. (Original) A unit according to claim 1, wherein said unit further comprises random number generating means for generating a random number when the personal authentication is to be executed, and said encryption means comprises means for supplying, to said personal authentication unit, a ciphertext obtained by encrypting the registration data with a random number generated by said random number generating

means and a ciphertext obtained by encrypting the random number with a key held by said personal authentication unit.

4. (Canceled)

5. (Previously Presented) A portable unit comprising:

means for storing registration data; and

encryption means for, in executing a personal authentication based on the registration data and new input information, supplying a ciphertext obtained by encrypting the registration data stored in the said storage means to a fixed section which is communicatively connected to said portable unit and performs transfer processing including encryption between said portable unit and a plurality of personal authentication units for performing personal authentication by using the registration data obtained by decrypting the encrypted registration data.

6. (Previously Presented) A personal authentication system having tamper resistance, comprising:

a tamper-resistant fixed section including:

first tamper-resistant decryption means for obtaining registration data by decrypting a ciphertext supplied from a portable unit for storing the registration data and outputting the ciphertext obtained by encrypting the registration data;

encryption means for sending a ciphertext obtained by encrypting the registration data obtained from said first decryption means with a predetermined cryptographic key;

second decryption means for obtaining registration data by decrypting the ciphertext sent from said decryption means with a predetermined cryptographic key; and

collation means for collating the registration data obtained from said second decryption means with the input information.

7. (Previously Presented) A computer readable medium used for a tamper-resistant portable unit which can communicate with a personal authentication unit for executing personal authentication and includes a computer, said medium storing a program which when executed performs a method comprising:

causing said computer to execute a procedure for storing registration data in storage means; and

causing said computer to execute an encryption procedure for encrypting the registration data and supplying the obtained ciphertext to said personal authentication unit when executing the personal authentication by using the registration data obtained by decrypting the encrypted registration data.

8. (Canceled)

9. (Previously Presented) A computer readable medium used for a tamper-resistant portable unit having a computer and capable of communicating with a personal authentication system including a tamper-resistant fixed section which has a computer and obtains registration data by decrypting a ciphertext supplied from a tamper-resistant

portable unit for storing registration data and outputting a ciphertext obtained by encrypting the registration data, encrypts the obtained registration data by using a predetermined cryptographic key, and transfers the ciphertext to a plurality of personal authentication units for executing personal authentication, and said plurality of tamper-resistant personal authentication units each of which has a computer, decrypts the ciphertext from said fixed section, and collates obtained information with input information, thereby executing a personal authentication, said medium storing a program which when executed performs a method comprising:

causing said computer to execute a procedure for storing registration data; and

causing said computer to execute an encryption procedure for supplying the ciphertext obtained by encrypting the registration data to said fixed section when executing the personal authentication by using the registration data obtained by decrypting encrypted registration data.

10. (Previously Presented) A computer readable medium used for a personal authentication system including a tamper-resistant fixed section which has a computer and obtains registration data by decrypting the ciphertext supplied from a tamper-resistant portable unit for storing registration data and outputting a ciphertext obtained by encrypting the registration data, encrypts the obtained registration data by using a predetermined cryptographic key, and transfers the ciphertext to a plurality of personal authentication units for executing personal authentications, and said plurality of tamper-resistant personal authentication units each of which has a computer, decrypts the ciphertext from said fixed section, and collates obtained information with input

information, thereby executing a personal authentication, said medium storing a program which when executed performs a method comprising:

causing said computer of said fixed section to execute a first decryption procedure for obtaining registration data by decrypting a ciphertext supplied from said portable unit;

causing said computer of said fixed section to execute a second encrypt procedure for encrypting the registration data obtained by the first decryption procedure with a predetermined cryptographic key and sending the obtained ciphertext;

causing said computer of each of said personal authentication units to execute a second decryption procedure for obtaining registration data by decrypting the ciphertext sent by the second encryption procedure with a predetermined cryptographic key; and

causing said computer of each of said personal authentication units to execute a collation procedure for collating the registration data obtained by the second decrypt procedure with the input information.

11. (Original) A personal authentication system comprising:

a tamper-resistant portable unit including:

a memory for storing registration data;

encryption means for, when a personal authentication is to be executed, encrypting the registration data stored in said memory;

supply means for supplying the registration data encrypted by said encryption means to a personal authentication unit;

a tamper-resistant personal authentication unit capable of communicating with said portable unit, including:

input means for inputting registration data;

decryption means for decrypting the encrypted registration data supplied from said supply means; and

collation means for collating the registration data decrypted by said decryption means with the registration data input by said input means.

12. (Original) A system according to claim 11, wherein said portable unit and said personal authentication unit further comprise authentication means for performing mutual authentication between said portable unit and said personal authentication unit.

13. (Original) A system according to claim 12, wherein said authentication means respectively have certificates and private keys and execute verification of the certificates and mutual authentication of authenticating information indicating that said unit and said unit mutually have the private keys.

14. (Original) A system according to claim 13, wherein said portable unit verifies the certificate of said personal authentication unit by decrypting a signature of an authentication office which is contained in the certificate received from said personal authentication unit by using a public key of the authentication office, and performing true-false determination of the decryption result by using a name

of the authentication office.

15. (Original) A system according to claim 11, wherein the input information collated by said collation means is personal biological information.

16. (Original) A portable unit used for said personal authentication system defined in claim 11, comprising:

random number generating means for generating a random number when the personal authentication is to be executed; and

encryption means for generating a first ciphertext by encrypting the registration data with the random number generated by said random number generating means, generating a second ciphertext by encrypting the random number by using a key obtained from said personal authentication unit, and supplying the first and second ciphertexts to said personal authentication unit.

17. (Original) An article of manufacture comprising:

a computer readable medium having computer readable program code means embodied therein for causing a personal authentication to be performed between a portable unit and a personal authentication unit, the computer program code means in said article of manufacturing comprising:

computer readable program code means for causing a computer to encrypt, when the personal authentication is to be performed, the registration data and to supply the encrypted registration data to the personal authentication unit;

computer readable program code means for causing the computer to decrypt the encrypted data to obtain the registration data;

computer readable program code means for causing the computer to input registration data; and

computer readable program code means for causing the computer to collate the registration data obtained by the decryption with the inputted registration data.

18. (Original) A personal authentication system comprising:

a tamper-resistant portable unit including:

a memory for storing registration data;

a tamper-resistant fixed section containing a plurality of personal authentication units for performing encryption and transfer processing between said portable unit and said plurality of personal authentication units;

first encryption means for supplying a ciphertext obtained by encrypting the registration data stored in said memory to said fixed section;

the said fixed section including:

first decryption means for obtaining registration data by decrypting the ciphertext supplied from said first encryption means; and

second encryption means for encrypting the registration data obtained by said first decrypting means with a predetermined cryptographic key, and

sending the obtained ciphertext;

said plurality of personal authentication units having tamper-resistance is capable of executing personal authentications on the basis of the registration data in said

portable unit and new input information, each of said personal authentication units including:

second decryption means for obtaining registration data by decrypting the ciphertext sent from said second encryption means with a predetermined cryptographic key; and

collation means for collating the registration data obtained by said second decryption means with the input information.

19. (Original) A portable unit used for said personal authentication system defined in claim 18, comprising:

random number generating means for generating a random number when the personal authentication is to be executed; and

first encryption means for supplying, to said fixed section, a ciphertext obtained by encrypting the registration data with the random number generated by said random number generating means and a ciphertext obtained by encrypting the random number with a key of said fixed section.